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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,581 11/26/2003		Osamu Omori	81754.0105	8614	
26021	7590 10/03/2005		EXAMINER		
HOGAN & HARTSON L.L.P. 500 S. GRAND AVENUE			MITCHELL, JAMES M		
SUITE 1900	DAVENUE		ART UNIT	PAPER NUMBER	
LOS ANGEL	ES, CA 90071-2611		2813		
			DATE MAILED: 10/03/2004	ς .	

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application	1 NO,	Applicant(s)	(a)		
Office Action Summer:		10/724,581		OMORI, OSAMU				
	Office Action Summary		Examiner		Art Unit			
			James M. N		2813			
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WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Manisons of time may be available under the provision SIX (6) MONTHS from the mailing date of this come of period for reply is specified above, the maximum is the reply within the set or extended period for reply reply received by the Office later than three months led patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF THI 36(a). In no even will apply and will cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).	•		
Status								
1)⊠	Responsive to communication(s) file	ed on 30 Ju	ine 2005					
<u> </u>				n-final				
3)□	<u></u>							
ال (۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·	ilice dildei <i>L.</i>	x parte Qua	yle, 1933 C.D. 11, 40	33 O.G. 213.			
Disposit	ion of Claims							
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>15-20</u> is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-14</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or	election red	quirement.				
Applicat	ion Papers							
9)[The specification is objected to by the	ne Examiner	r.					
	The drawing(s) filed on is/are			objected to by the E	Examiner.			
7—	Applicant may not request that any obje	•		- •				
•	Replacement drawing sheet(s) including			•	• •	S 1 121(d)		
11)	The oath or declaration is objected t					• •		
	ınder 35 U.S.C. § 119	•						
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	application from the Internation		•	` ''				
* 5	See the attached detailed Office action	on for a list o	of the certific	ed copies not receive	d.			
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Attachmen	• •			n	(DTO 440)			
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (F	PTO-048)	4	Interview Summary Paper No(s)/Mail Da				
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	r No(s)/Mail Date <u>1/12/04,5/24/04</u> .	•	€	5)				

DETAILED ACTION

This office action is in response to applicant's election filed June 30, 2005.

Election/Restrictions

Claims 15-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse of claims 1-14 in the reply filed on June 30, 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 and 8-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Hashimoto et al. (U.S. 2003/0124762).

Hashimoto (Fig. 4A-5A, 7A-E) discloses:

(cl. 1) a method of manufacturing a semiconductor device, comprising (a) connecting a first substrate (10) with a second substrate (20) disposed to be stacked on the first substrate; and (b) cutting the first substrate (Fig. 4B) and the second substrate (Fig. 4C) in the same process of forming an optical device with a cutting tool (36, 38), wherein: the cutting tool includes a plurality of cutters disposed close to each other.

having different cut widths; and the first substrate and the second substrate are cut with the cutting tool so that the first substrate and the second substrate have different cut widths, in step (b);

- (cl. 2) the first substrate with optical transparency (0091) and forming the second substrate to include a part which becomes an optical chip including an optical unit with the part including at least a plurality of parts;
- (cl. 3) inserting the cutting tool into the first substrate and the second substrate from a side of the first substrate (Fig. 4B-C);
- (cl. 4) the first cutter (36) larger than cutting a cut width of the second substrate by the second cutter (38);
- (cl. 5, 6) providing the length of the first/second cutter larger than the thickness of a part, which is cut, of the first substrate (Fig. 4B);
- (cl. 8) forming an electrode (34) on the part which becomes an optical chip (100) on the second substrate, and outside the optical unit; and removing a part of the first substrate located above the electrode with the first cutter in step (b) (Fig. 4B);
- (cl. 9) and attaching a sheet (21) to second substrate and cutting second substrate not to penetrate sheet (Fig. 4C);
- (cl. 10) forming trench (12) along cut line before step b/cutting (Fig. 4A);
- (cl. 11) and further cutting and separating the first and second substrates into individual pieces (Fig. 5A), where the first and second substrates are placed face-to-face fixed to each other;
- (cl. 12) fixing the substrate by a spacer (18);

(cl. 13) where the fixing includes a transparent adhesive between substrates (Par. 0099);

(cl. 14) and forming connecting part (i.e. top surface of substrate connecting substrate units, Fig. 4A) which connects a plurality of covers (14,21) on first and second substrates in step a [prior to being cut] and cutting the connecting part (Fig. 4A-B).

Claims 1, 3-7 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukasawa et al. (U.S. 6,657,282).

Fukasawa (Fig. 10A-F) discloses:

(cl. 1) a method of manufacturing a semiconductor device, comprising (a) connecting a first substrate (22) with a second substrate (51) disposed to be stacked on the first substrate; and (b) cutting the first substrate and the second substrate (Fig. 10A-D) in the same process of forming device with a cutting tool (26, 27A), wherein: the cutting tool includes a plurality of cutters disposed close to each other (i.e. second cut performed after first), having different cut widths; and the first substrate and the second substrate are cut with the cutting tool so that the first substrate and the second substrate have different cut widths, in step (b);

- (cl. 3) inserting the cutting tool into the first substrate and the second substrate from a side of the first substrate (i.e. top portion);
- (cl. 4) the first cutter (26) larger than cutting a cut width of the second substrate by the second cutter (27A);

(cl. 5, 6) providing the length of the first/second cutter larger than the thickness of a part which is cut, of the first substrate (Fig. Fig. 10B,E);

(cl. 7) positioning the fist cutter with an interval from a surface of the second cutter at the time of cutting the second substrate (i.e. likewise the angle blade would also form a plurality of cutters with different widths since the cut results in 1st and 2nd substrates having different first and second cut widths, as shown in Figure 10B);

(cl. 11) and further cutting and separating the first and second substrates into individual pieces (Fig. 10F), where the first and second substrates are placed face-to-face fixed to each other.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art discloses the use of cutting substrates with a first and second blade.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 3, 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800